

**TRANSCO GAS PIPELINE EXPANSION PROJECT****1322D****Temporary Dewatering Permit : DWP150001****Permit Inventory****Water Diversion Sources** - Water may be diverted under this permit from the following sources:

<b>Source Designation (Well Permit No. or Intake No.)</b>	<b>Description</b>	<b>Subject Item ID</b>
DEWATERING TRENCH SUMP PUMP SYSTEM	DEWATERING TRENCH SUMP PUMP SYSTEM	WSRM0001160298

**Group Subject Items** - The following items are grouped sources for the purpose of setting permit requirements outlined in this document:

<b>Group Designation</b>	<b>Group Description</b>	<b>Group Subject Item ID</b>	<b>Group Members</b>
TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203	1322D TEMP DWP - ALL DIVERSION SOURCES	WSWA0001160300	DEWATERING TRENCH SUMP PUMP SYSTEM, DEWATERING TRENCH SUMP PUMP SYSTEM (WSRM1160298)

**TRANSCO GAS PIPELINE EXPANSION PROJECT****1322D****Temporary Dewatering Permit : DWP150001****Permit Requirements****Limit Requirements**

The following limits apply and are the maximum permitted allocation:

**Final Permit Phase**

Subject Item	Parameter	Limit
TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES (WSWA1160300)	Maximum Diversion Rate	<= 6830 Gallons Per Minute. [N.J.A.C. 7:19- 2]
	Water Diverted	<= 7 Million Gallons Per Month. [N.J.A.C. 7:19- 2]

**Other Limit Requirements****Final Permit Phase**

Subject Item	Parameter	Limit
DEWATERING TRENCH SUMP PUMP SYSTEM, DEWATERING TRENCH SUMP PUMP SYSTEM (WSRM1160298)	Rated Pump Capacity	<= 6830 Gallons Per Minute. [N.J.A.C. 7:19- 2]

**Monitoring Requirements****Final Permit Phase**

Subject Item	Requirement	Frequency	Monitored Parameter	Monitoring Method
DEWATERING TRENCH SUMP PUMP SYSTEM, DEWATERING TRENCH SUMP PUMP SYSTEM (WSRM1160298)	The monthly diversion for each source indicated shall be monitored. [N.J.A.C. 7:19- 2]	Each Month	Water Diverted	Meter

**TRANSCO GAS PIPELINE EXPANSION PROJECT**

**1322D**

**Temporary Dewatering Permit : DWP150001**

**Record Keeping Requirements**

**Final Permit Phase**

<b>Subject Item</b>	<b>Requirement</b>	<b>Frequency</b>	<b>Monitored Parameter</b>	<b>Record Keeping Method</b>
TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES (WSWA1160300)	A log book of month end meter readings for each diversion source shall be maintained on site. [N.J.A.C. 7:19- 2]	Each Month	Meter Reading	Log Book

**Submittal/Action Requirements**

**Final Permit Phase**

<b>Applicable Subject Items</b>	<b>Submittal/Action Type</b>	<b>Requirement</b>
DEWATERING TRENCH SUMP PUMP SYSTEM, DEWATERING TRENCH SUMP PUMP SYSTEM (WSRM1160298)	Submit Dewatering Quarterly Report	The required monitoring results shall be recorded on the form provided by the Department. The completed form shall be submitted within 30 days after the end of each quarter. [N.J.A.C. 7:19- 2]
TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES (WSWA1160300)	Submit Dewatering Completion Report	The permittee shall submit a completion report including the date the project was completed and abandonment reports for all wells and/or wellpoints used. The completed report shall be submitted within 60 days of completion of the project. [N.J.A.C. 7:19- 2]
TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES (WSWA1160300)	Submit Renewal Application	A renewal application must be submitted three months prior to the expiration date. [N.J.A.C. 7:19- 2]

# TRANSCO GAS PIPELINE EXPANSION PROJECT

1322D

## Temporary Dewatering Permit : DWP150001

### Text Requirements

#### All Phases

TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES  
(WSWA1160300)

1. The permittee shall investigate any complaints by users of wells or surface water supplies which become damaged, dry, have reduced capacity, reduced water quality or are otherwise rendered unusable as a result of the permittee's dewatering operations. A report on these investigations shall be forwarded to the Bureau of Water Allocation and Well Permitting. Those wells or surface water supplies which become damaged, dry, have reduced capacity, reduced water quality or are otherwise rendered unusable as a result of the dewatering operation shall be repaired or replaced at the expense of the permittee. The permittee shall assume financial responsibility for the reparation, or replacement and sealing of such wells which have been rendered unusable and have been abandoned by the owner in accordance with N.J.S.A. 58:4A-4.1. The Department of Environmental Protection will make the final determination regarding the validity of such complaints and will determine how to resolve any problems resulting from the diversion. [N.J.A.C. 7:19- 2]
2. The permittee shall have a contingency plan in place to temporarily supply potable water in the event that the diversion adversely impacts the water supply of other users. [N.J.A.C. 7:19- 2]
3. The total diversion shall be metered with a totalizing flow meter. [N.J.A.C. 7:19- 2]
4. All wells and points shall be examined after use and properly sealed in accordance with N.J.A.C. 7:9D-3.1 et seq. [N.J.A.C. 7: 9D- 3]
5. The Department may modify, suspend or terminate this permit, after due process, for violations of permit conditions, N.J.S.A. 58:1A-1, N.J.A.C. 7:19-1 et seq., any orders issued by the Department, or when in the public interest. [N.J.A.C. 7:19- 2]
6. The permittee is subject to such initial, modification and annual fees as may be prescribed by the regulations. [N.J.A.C. 7:19- 3]
7. The permittee shall have the right to apply at any time for modification of this permit by submission of the appropriate application forms. [N.J.A.C. 7:19- 2]
8. The permittee may informally discuss the terms and conditions of this permit at any time with the Bureau of Water Allocation and Well Permitting. [N.J.A.C. 7:19- 2]
9. This permit is revocable, or subject to modification or change at any time, pursuant to the applicable regulations, when in the judgement of the Department of Environmental Protection of the State of New Jersey such revocation, modification or change shall be necessary. [N.J.A.C. 7:19- 2]
10. The issuance of this permit shall not be deemed to affect in any way action by the Department of Environmental Protection of the State of New Jersey on any future application. [N.J.A.C. 7:19- 2]
11. No change in plans or specifications shall be made except with the prior written permission of the Department of Environmental Protection of the State of New Jersey. [N.J.A.C. 7:19- 2]
12. The granting of this permit shall not be construed to in any way affect the title or ownership of property, and shall not make the Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:19- 2]
13. This permit does not waive the obtaining of Federal or other State or County or local government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approval and permits have been obtained. [N.J.A.C. 7:19- 2]
14. A copy of this permit shall be kept at the work site, and shall be exhibited upon request of any authorized Department representative. [N.J.A.C. 7:19- 2]
15. The Department has the right to enter and inspect any site, building, or equipment, or any portion thereof, owned or operated by the permittee, at any time, in order to ascertain compliance or noncompliance with N.J.S.A. 58:1A-1 et seq., 58:4A-4.1 et seq., 58:12A-1 et seq., these rules, or any other agreement or order issued or entered into pursuant thereto. Such right shall include, but not be limited to, the right to require the testing of any equipment at the facility, to sketch or photograph any portion of the site, building or equipment, to copy or photograph any document or records necessary to determine such compliance or noncompliance, and to interview any employees or representative of the owner, operator, or permittee. Such right shall be absolute and shall not be conditioned upon any action by the Department, except the presentation of appropriate credentials as requested and compliance with appropriate standard safety procedures. [N.J.A.C. 7:19- 2]

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**Text Requirements**

**All Phases**

TRANSCO EXPANSION PROJECT - COMPRESSOR STATION 203 , 1322D TEMP DWP - ALL DIVERSION SOURCES  
(WSWA1160300)

16. This permit may be transferred, with the consent of the Department, but only for the identical use of the waters. [N.J.A.C. 7:19- 2]
17. If the authorized diversion privileges are not currently diverted, subject to contract, or reasonably required for a demonstrated future need, they shall revert back to the State upon renewal or modification of the permit. [N.J.A.C. 7:19- 2]
18. The permittee shall protect each source from vandalism, tampering, and contamination at all times. [N.J.A.C. 7:19- 2]
19. This permit shall expire as indicated on the permit approval cover page. [N.J.A.C. 7:19- 2]

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STAFF REPORT  
DEWATERING

In the matter of TRANSCO EXPANSION PROJECT – COMPRESSOR STATION 203

Water Allocation Application No. 1322D, to temporarily divert water from a dewatering trench sump pump system in the following Municipalities and County:

Chesterfield Twp. and Bordentown      Burlington County  
Twp.

In compliance with the provisions of N.J.S.A. 58:1A-1 et seq., TRANSCO EXPANSION PROJECT, 2800 Post Oak Blvd, Houston, Texas, 77056, filed an application with the Department of Environmental Protection on December 8, 2015 and an amended application on February 16, 2016 for approval of plans to divert a maximum of 7 million gallons of water during any month (mgm) at a maximum rate of 6,830 gallons per minute (gpm) from a series of approximately 34 trenches; 2 feet to 13 feet deep. The trenches are mainly located in Chesterfield Twp. with a small portion in Bordentown Twp., Burlington County.

Diversion is for the purpose of temporary dewatering for the construction of Compressor Station – 203 and Chesterfield Meter Station and associated tie-in piping, electrical conduit, and other appurtenances.

Diversion is in the Delaware River Basin.

Public notice was required as this is an application for a new diversion.

A public hearing has been scheduled for April 26, 2016 at 5:00P.M. at the Chesterfield Elementary School, 30 Saddle Way, Chesterfield, New Jersey 08515 to afford the public an opportunity to be heard on this application.

A Notice of Application and Public Hearing was published on April 10, 2016, in the Burlington County Times.

Background/Findings of Fact

1. This permit is required as dewatering will continue for approximately 10 months. It is anticipated that dewatering will begin on the effective date of the permit or later and continue for approximately 10 months.
2. The diversion includes a series of approximately 34 trenches 2 feet to 13 feet deep.
3. According to the applicant's Engineering Report, ground water is encountered at the site from 1 foot to 10 feet below grade.

4. The ground surface elevations at the site vary from 73 feet to 83 feet above sea level.
5. Excavation at the site will vary from 2 feet to 13 feet below grade. Dewatering is expected to occur to a depth of 13 feet below grade.
6. The anticipated total length of the project is 7,659 linear feet consisting of perimeter trenching (foundations), box excavation (foundations/stormwater), and line trenching (piping/duct bank). The maximum length of open trench will be minimized by method of sequential trenching and backfilling operations. The average diversion in gallons of water per foot length of open trench is estimated to be 914 gallons/foot.
7. The applicant's estimate of the quantity of water to be diverted monthly is based upon their engineer's calculations.
8. Other sub-surface diversions within a one-quarter mile radius include 8 private domestic/domestic replacement wells. Records indicate that the wells range in depth from 55 feet to 200 feet. These wells include:

Well Address	Well Permit No.	Depth (feet)	Aquifer	Capacity (gpm)	Distance (feet)
Daniel Avenue	2800004031	152	Magothy	8	500
Unknown	2800008506	150	Magothy	10	625
Hogback Road	2800029216	180	Magothy	0	1,125
Unknown	2800010639	200	Magothy	10	650
Unknown	2800011790	110	Magothy	10	1,175
Unknown	2800014681	200	Magothy	10	350
Unknown	2800009832	55	Magothy	10	775
Unknown	2800002486	125	Magothy	10	1,100

9. There are no public water supply wells within a one-mile radius of the project.
10. According to the applicant there are 4 potential pollution sites located within a one-quarter mile radius of the dewatering activity. These include:

Address of Source	Distance (feet)	Aquifer Affected	Status
24 Bordentown-Chesterfield Road *	370	Pensauken Formation	Unknown
31 Bordentown-Chesterfield Road *	454	Pensauken Formation	Closed
35 Bordentown-Chesterfield Road *	649	Pensauken Formation	Unknown

Address of Source	Distance (feet)	Aquifer Affected	Status
35 Bordentown-Chesterfield Road *	686	Pensauken Formation	Closed
*Note: None of these sites are part of the NJDEP Known Contaminated Sites List			

11. Water will be discharged to one or more settling tanks, through appropriately sized cartridge filters, and then discharged onto vegetated upland portions of the site. The discharge will be measured by totalizing flow meters. This discharge may require a NJPDES permit.
12. The applicant indicated that there are freshwater wetlands within the radius of influence of the diversion. The Bureau of Freshwater Wetlands has been notified of the proposed diversion. Applications have been submitted for NJFW Wetlands Permit – Individual and NJFW Wetlands Permit GP 12 on July 24, 2015 and September 8, 2015, respectively.
13. The FERC Certificate for the Chesterfield Compressor Station 203 was issued on April 7, 2016.

#### Staff Analysis

1. The monthly allocation was based upon estimates contained in the application and accompanying Engineer's Report.
2. Issuance of this permit at the recommended diversion rates will allow for construction of the Transco Expansion Project – Compressor Station 203 and Chesterfield Meter Station and associated tie-in piping, electrical conduit, and other appurtenances. Historically the Department has viewed governmental approvals for a project signifies that it is the public interest. Therefore, upon receipt of all necessary Federal, State, County, and local approvals, the proposed diversion would be considered to be in the public interest in accordance with N.J.A.C. 7:19-2.3(g)1.
3. Based upon the expected maximum withdrawal rate, the characteristics for an unconfined aquifer, and the limits of dewatering, the zone of influence is expected to be less than 14 feet deep and extend less than 400 feet from the dewatering activity.

Given this and the fact that the diversion is temporary in nature, adjacent wells are screened at depths greater than this, and the applicant is required to have a contingency plan in place should anyone be adversely impacted, the diversion is just and equitable to other water users in accordance with N.J.A.C. 7:19-2.3(g)2.

4. As the diversion is temporary in nature, it is not expected to exceed the long term natural replenishment of ground water in the area, or adversely affect any river or stream in accordance with N.J.A.C. 7:19-2.3(g)3.
5. The diversion is not expected to contribute to the spread of groundwater pollution due to there being no identified known contaminated sites within one-quarter mile radius of the dewatering activity according to the NJDEP Known Contaminated Sites List.

#### Recommendations



Issuance of the permit is recommended with and expiration date of \_\_\_\_\_, 20\_\_\_\_, subject to the attached specific permit requirements:

Date: \_\_\_\_\_

Andy MacDonald  
Bureau of Water Allocation & Well Permitting

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